

Applying Advanced Spatial Technology to the Search & Rescue Operation

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Integrating GIS with
Emergency Management

2008 VIRGINIA EMERGENCY
MANAGEMENT CONFERENCE



The Search & Rescue Team in Spotsylvania

- There are a total of 21 team members
- All are VDEM certified.
- The team is made up of:
 - Tactical Trackers - 18
 - Bloodhounds certified - 2
 - Cadaver K-9's certified - 2
 - Unmanned aircraft operator certified - 6
 - Emergency Medical Techs - 1
 - Paramedic - 1
 - All members are CPR & basic first aid certified

The Spotsylvania County S&R Command Trailer



The Spotsylvania County S&R Command Trailer



Spotsylvania County S&R

The Way it used to be



Original "GIS" System

- ADC Guide - Road Map
- USGS 7 ½ Minute Quads
- Scotch Tape

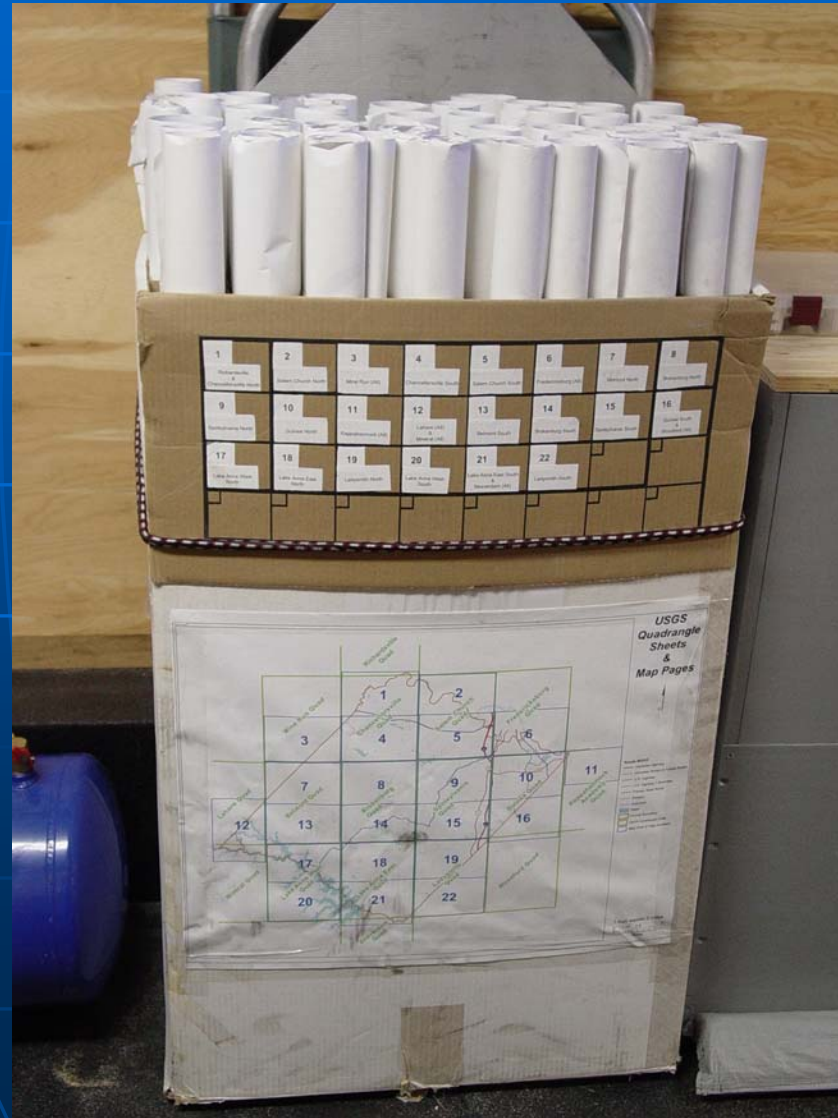


Spotsylvania County S&R

Establish an Analogue (Paper) Back-up System

Series of Paper Maps

- Roads
- Contours
- Aerials



Spotsylvania County S&R Install GIS System

GIS Consist of:

- ArcReader
- Printer
- UPS



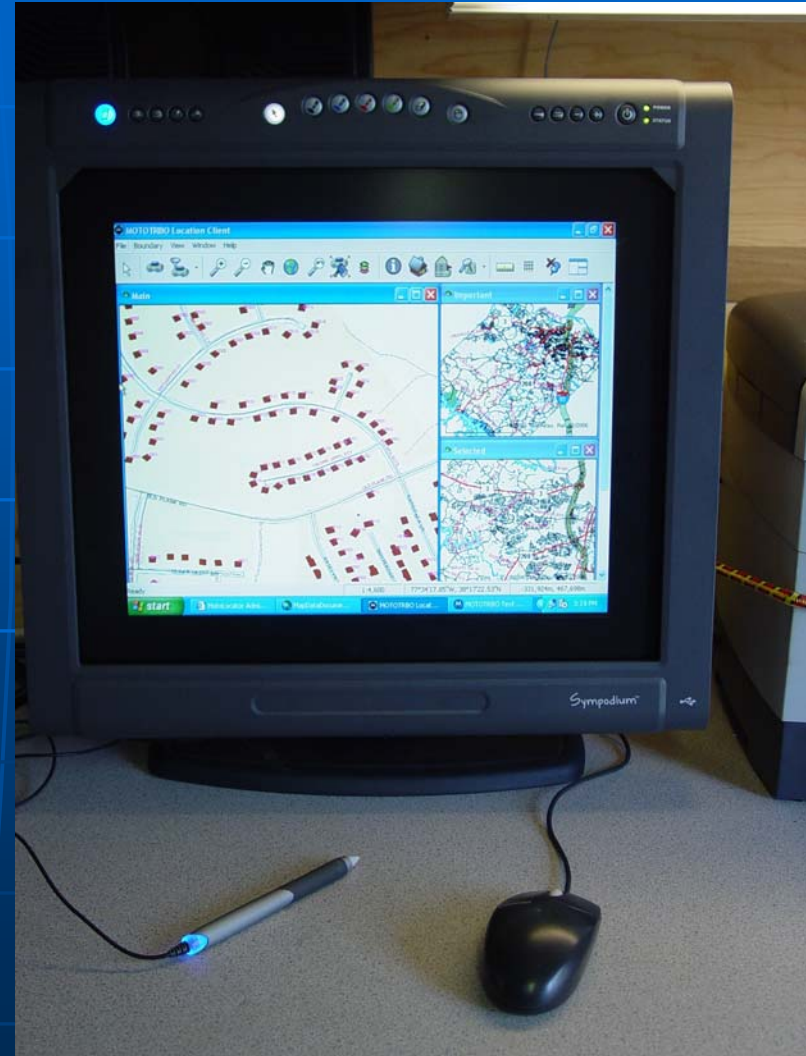
Spotsylvania County S&R

Add Search Crew Tracking Capabilities



MotoLocator System

- GPS Equipped Radios
- Base Station
- Repeater Station
- Viewing Software

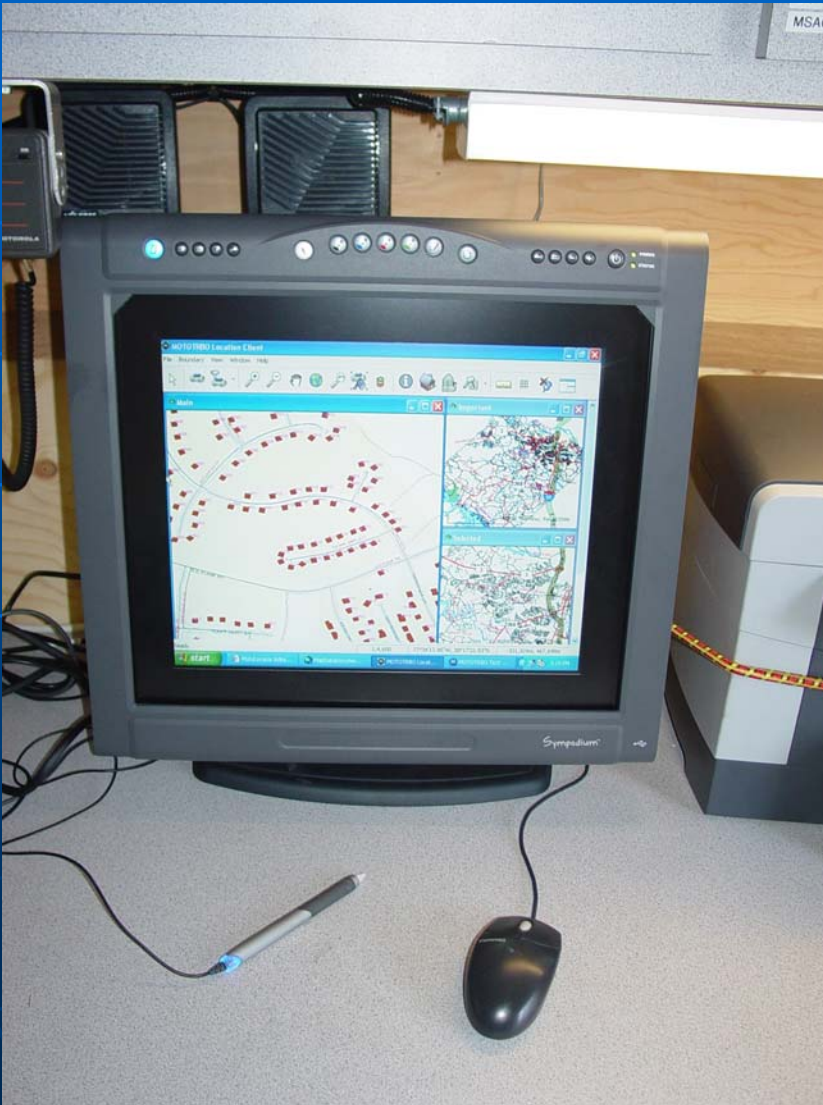


Spotsylvania County S&R

Add Planning & Coordinating Capabilities

SmartBoard Technology:

- Sympodium
- Slate (Airliner)
- Software

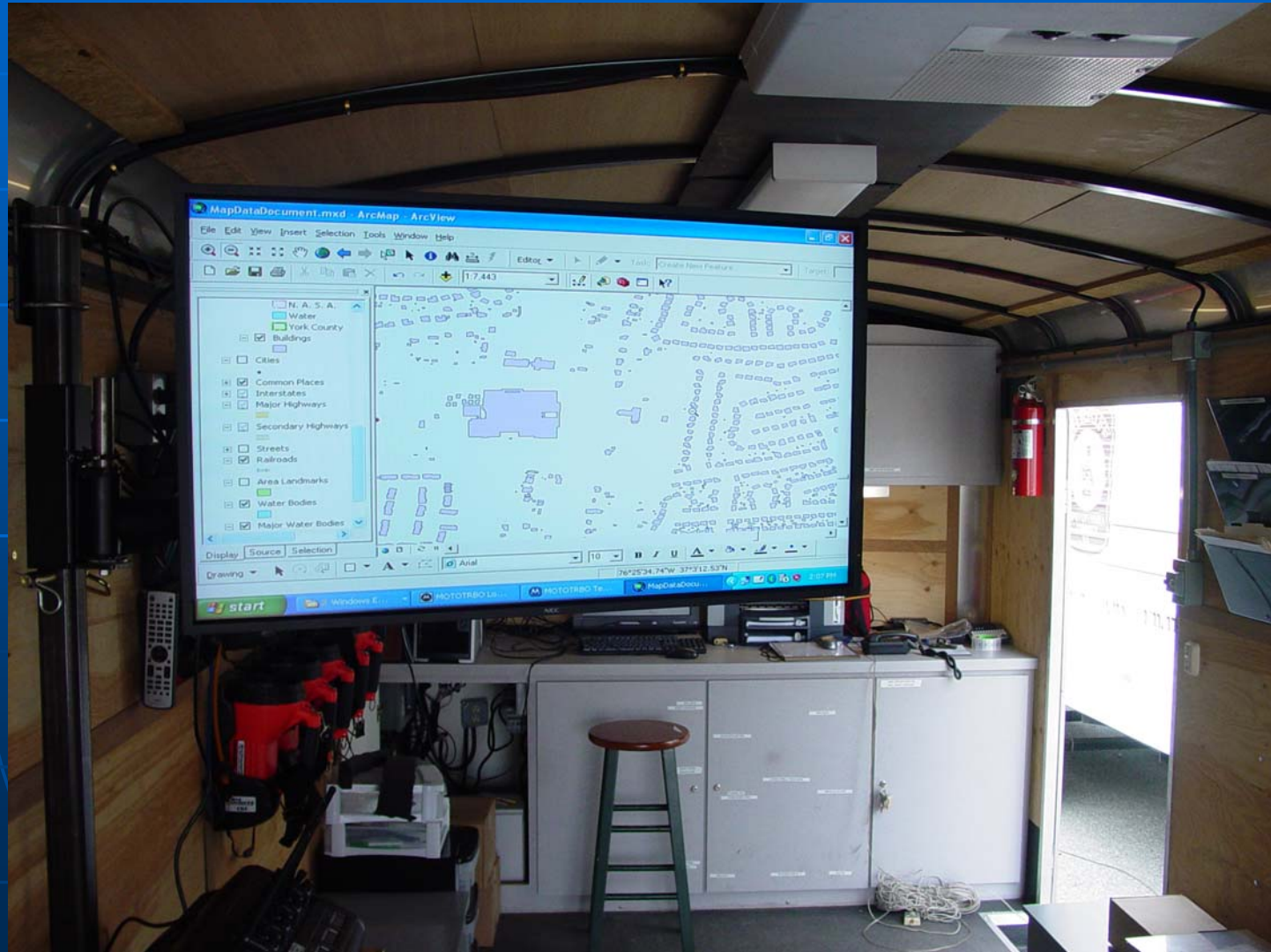


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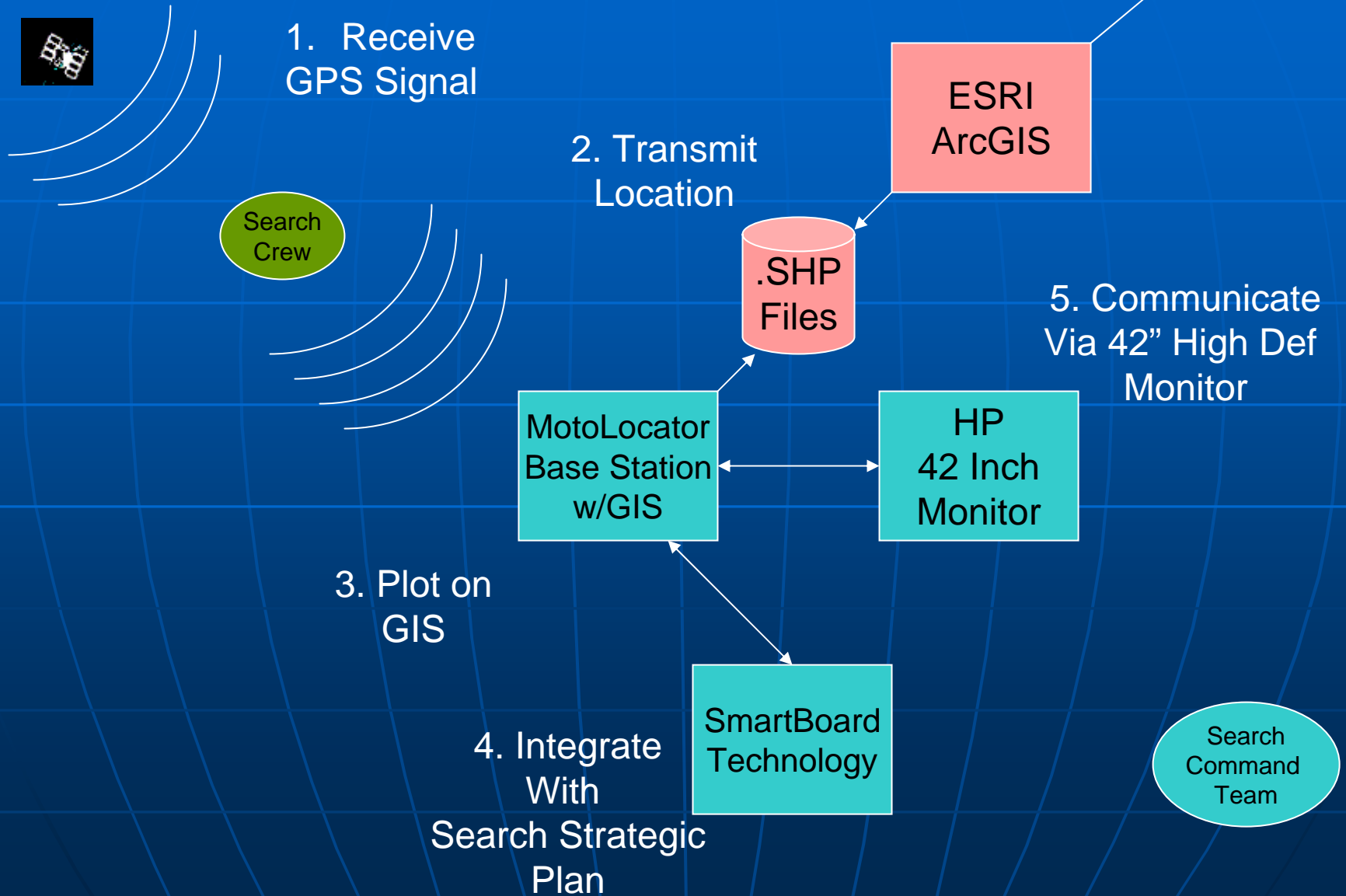
Communicating to the Team With Large Monitor

Monitor Consist of:

- 42 inch Diagonal
- Custom Mount
- Signal Booster



Spotsylvania County S&R Summary of the System

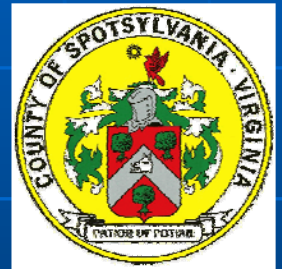


Benefits of the System

- Assure a Thorough Search
- Improves Search Coordination
- Improves Safety of Searchers
- Enable Convergence on the Victim
- Standalone System Facilitates Mutual Aid
- Archive Cases

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